

## Working with Model Type dependent Profiles

### „Step by step“-instruction

#### 1. General

In the MODEL.type file the system administrator can determine the conditions for the automatic recognition of different model types (e.g. space model, drawing model, hybrid model...). This automatic recognition takes place, when the check is started with the *Model Type Dependent Profile* option activated. In this case by the means of the MODEL.type file, the model is analyzed on:

Model type recognition dependent on the model name:

Generally any name is allowed, which means that a selection can be made with the keyword MODELNAME that searches for a defined string as of a certain position in a model name. Combinations are also possible, meaning that the Boolean operands AND and OR can be used.

Model type recognition dependent on the comment:

The comment dependent recognition of the model type is controlled by checking the texts, filled in the file comment behind the keywords.

Model type recognition dependent on the element type:

Generally all elements are allowed, this means that the elements that are not allowed have to be removed with the keyword TYPE\_NOTALLOWED, while subsets of the removed elements are added with the keyword TYPE\_ALLOWED.

Model type recognition dependent on the model dimension:

You can define the model type depending on the model dimension. The keyword MODELDIMENSION defines the value of the model dimension as a real number.

As a result, a check profile is selected automatically, that corresponds to the model type.

For the number of model types, the administrator can define, and their names, there are no restrictions by Q-CHECKER.

The names of all model types, defined by the administrator in the MODEL.type file, are contained in the list box in the upper part of the *Modify Profile* window / *Options* tab card. This list box is opened by activating the *Model Type Dependent Profile* check box in the *Modify Profile* window (to open with the *Edit Profile* button).

## 2. Applying the file „MODEL.type“

- Apply the file in the language directory (e.g. ..\adminV4\lang\_DE).
- The general structure of a model type declaration is the following::

```
BEGIN_MODELTYPE <Text1> "<Text2>"
  DEFINE CONDITIONS
END_MODELTYPE
```

- Text1 is the name, that appears in the XYZ.qcprofile file, and Text2 is the name that appears in the list box. If Text2 has blanks, then it must be in inverted commas.

The conditions are arranged block wise

The model type should analyzed on:

BEGIN_	
- MODELNAME	Keyword in model name
- COMMENT	Keyword in model comment
- TYPE_ALLOWED / TYPE_NOTALLOWED	certain elements in model
- MODELDIMENSION	model dimension
END_	

Definition of the String / Element / Dimension:

```
BEGIN_BLOCK
  String / Element / Dimension (usage of Regular Expressions is possible)
END_BLOCK
```

- Example (Keyword in model name):

```
BEGIN_MODELTYPE Modeltype_1 "Modeltype_1"
  BEGIN_MODELNAME
  BEGIN_BLOCK
  COLUMN 1
  "TYP_1"
  END_BLOCK
  END_MODELNAME
END_MODELTYPE

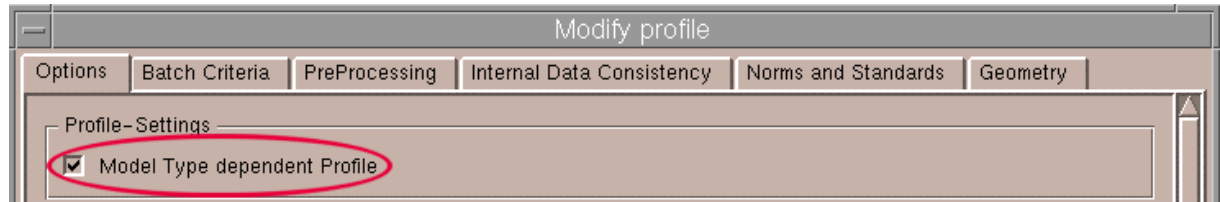
BEGIN_MODELTYPE Modeltype_2 "Modeltype_2"
  BEGIN_MODELNAME
  BEGIN_BLOCK
  COLUMN 1
  "[A-C]"
  END_BLOCK
  END_MODELNAME
END_MODELTYPE

BEGIN_MODELTYPE Modeltype_3 "Modeltype_3"
  BEGIN_MODELNAME
  BEGIN_BLOCK
  COLUMN 1
  "[0-9]{3}"
  END_BLOCK
  END_MODELNAME
END_MODELTYPE
```

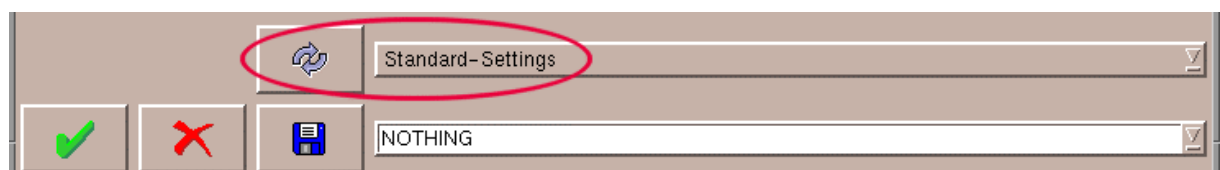
### 3. Open empty Check-Profile („NOTHING“)

- The empty Check-Profile is delivered with every Q-Checker

### 4. Activate Check-Box „Model Type dependent Profile“



→ The “Standard-Settings” will be activated in the upper part of the window



### 5. Define Standard-Settings

- Select the criteria which are valid for all model types.
- Starting from the Standard-Settings the Model Type dependent Profiles will be created

### 6. Apply values to all other model types



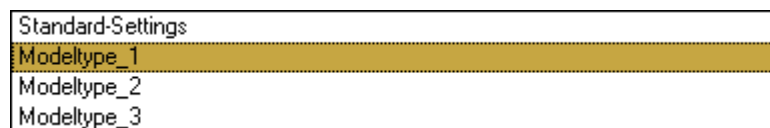
Standard settings are transferred to all defined model types.



#### **Warning:**

Do not push this button twice. All model type dependant settings will be overwritten by the Standard settings.

### 7. Select Model Type



### 8. Add / delete criteria for the model type

- Starting from the Standard-Settings criteria can be added or removed



#### **Important:**

Steps 7 and 8 must be done for each model type

### 9. Save the Model Type dependant Profile



The settings will be linked to an existing check profile for future use. It can be chosen from a list of pre-defined check profiles.